

Abstract of the Disclosure

Computer processor method and apparatus for creating an audio multiplier control  
5 signal for controlling the dynamic range of a recorded audio work. The technique  
includes determining an envelope of the amplitude of amplitude versus time values the  
audio signal, and then determining, for values of the envelope, respective minimum and  
maximum multiplication factors (MinMF and MaxMF) that can be multiplied times the  
values such that the products are above a predetermined minimum amplitude and below a  
10 predetermined maximum amplitude of the dynamic range. Then a control signal function  
of amplitude versus time is created such that all values of the control signal function at  
particular times are between respective MinMF and MaxMF values for the times, and  
such that segments of the control signal function have reduced slopes. Also disclosed is a  
method of creating a reduced-slope series of line segments passing through a pair of Max  
15 and Min limiting functions specifying y values with respect to a variable x.

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